

CLAIMS

1. A composition for use in an aerosol inhaler, the composition comprising an active material, a propellant
5 containing a hydrofluoroalkane (HFA), a cosolvent and further comprising a low volatility component to increase the mass median aerodynamic diameter (MMAD) of the aerosol particles on actuation of the inhaler.
2. A composition according to claim 1, wherein the low
10 volatility component has a vapour pressure at 25°C not more than 0.1 kPa.
3. A composition according to claim 2, wherein the low volatility component has a vapour pressure at 25°C not more than 0.05 kPa.
- 15 4. A composition according to any preceding claim, wherein the cosolvent has a vapour pressure at 25°C not less than 3 kPa.
5. A composition according to any preceding claim, wherein the cosolvent has a vapour pressure at 25°C not
20 less than 5 kPa.
6. A composition according to any preceding claim, wherein the cosolvent is an alcohol.
7. A composition according to any preceding claim, wherein the low volatility component includes a glycol.
- 25 8. A composition according to any preceding claim, wherein the low volatility component includes oleic acid.
9. A composition according to any preceding claim, wherein the propellant includes one or more HFAs
30 selected from the group comprising HFA 134a and HFA 227.
10. A composition according to any preceding claim,

wherein the composition includes not more than 20% by weight of the low volatility component.

11. A composition according to any preceding claim, wherein the composition includes at least 0.2% by weight of the low volatility component.

12. A composition according to any preceding claim, the composition being such that, on actuation of the aerosol inhaler in use, the MMAD of the aerosol particles is not less than 2 μm .

13. A composition according to any preceding claim, wherein the composition is in the form of a solution.

14. Use of a low volatility component in a composition for an aerosol inhaler, the composition comprising an active material, a propellant containing hydrofluoroalkane (HFA) and a cosolvent, to increase the mass median aerodynamic diameter (MMAD) of the aerosol particles on actuation of the inhaler.

15. Use of a low volatility component according to claim 14 to give a MMAD of the aerosol particles of not less than 2 μm .

16. Use of a low volatility component according to claim 14 or claim 15, wherein the low volatility component has a vapour pressure at 25°C not more than 0.1 kPa.

17. Use of a low volatility component according to any of claims 14 to 16, the composition being as claimed in any of claims 1 to 13.

18. An aerosol inhaler containing a composition, the composition being as claimed in any of claims 1 to 13.

19. Method of filling an aerosol inhaler with a composition, the method comprising filling the following

components into the inhaler

- (a) one or more active materials,
- (b) one or more low volatility components,
- (c) one or more cosolvents

5 followed by the addition of a propellant containing a hydrofluoroalkane (HFA).

20. A method according to claim 19, the composition being as claimed in any of claims 1 to 13.

10 21. Aerosol particles emitted from an aerosol inhaler containing a composition, the composition comprising an active component, a propellant containing a hydrofluoroalkane (HFA), a cosolvent and a low volatility component, wherein the mass median aerodynamic diameter (MMAD) of the aerosol particles is
15 not less than 2 μm .

22. Aerosol particles according to claim 21, wherein the MMAD of the particles is not less than 2.5 μm .

23. Aerosol particles according to claim 21 or claim 22, wherein the composition is according to any of
20 claims 1 to 13.